

CLAIMS

- 1 1. A sectional door for articulated movement between an open position and a closed
2 position comprising, a plurality of interconnected panels, a body portion of said
3 panels spacing a first decorative rail and a second decorative rail, projections
4 disposed along said first decorative rail and said second decoration rail, said
5 projections configured to form a pinch resistant interface between said panels
6 during articulation thereof, said body portion having an exterior surface, said
7 exterior surface being spaced an offset depth from said first decorative rail and
8 said second decorative rail, and decorative components attached to said exterior
9 surface of said panels and positioned between said first decorative rail and said
10 second decorative rail, whereby said decorative components are outwardly flush
11 with said first decorative rail and said second decorative rail and said decorative
12 rails do not interfere with said pinch resistant interface.
- 1 2. A sectional door according to claim 1, wherein said decorative components have
2 a thickness equal to said offset depth of said first decorative rail and said second
3 decorative rail from said exterior surfaces.
- 1 3. A sectional door according to claim 1, wherein said decorative components are
2 selected from vertical components and diagonal components.
- 1 4. A sectional door according to claim 1, wherein said decorative components are
2 attached to said exterior surface by a fastening mechanism.
- 1 5. A sectional door according to claim 1, wherein said decorative components are
2 sized to accommodate differences in the coefficients of thermal expansion of the
3 material of said decorative components and the material of said body portion.
- 1 6. A sectional door according to claim 1, wherein the length of said decorative
2 components is sufficiently less than the distance between said first decorative rail

1 and said second decorative rail so as to compensate for a greater coefficient of
2 thermal expansion for said decorative components than for said body portion.

1 7. A sectional door according to claim 1, wherein said panels are selectively formed
2 from metallic materials including steel and aluminum and non-metallic materials
3 including plastic and wood.

1 8. A sectional door according to claim 1, wherein said panels are formed by
2 sandwiching insulation between said body portion and a backer for said panels
3 of selectively metallic materials including steel and aluminum and non-metallic
4 materials including plastic and wood.

1 9. A sectional door according to claim 8, wherein said insulation is selectively foam
2 plastic blocks and foam plastic foamed *in situ*.

1 10. A sectional door according to claim 1, wherein said projections include a first
2 projection having a concave configuration on one of said panels and a second
3 projection on an adjacent of said panels having a convex configuration, said first
4 projection and said second projection remaining in close proximity during the
5 entirety of the articulation of the sectional door.

1 11. A sectional door according to claim 10, wherein an upturned lip is attached to the
2 distal end of said first projection and said downturned lip is attached to the distal
3 end of said second projection.

1 12. A sectional door according to claim 11, wherein said first and said second
2 projections have longitudinal lengths and periodic crimping is provided along
3 said longitudinal lengths.

- 1 13. A sectional door according to claim 11, wherein grooves are provided adjacent
2 said first and said second projections, opposing grooves are provided along said
3 upturned and said downturned lips, and strengthening strips are inserted between
4 said grooves and said opposing grooves.
- 1 14. A sectional door according to claim 1, wherein said projections include a first
2 projection on one of said panels having a first projecting finger and a second
3 projection having a second projecting finger, whereby said first projecting finger
4 and said second projecting finger remain in close proximity during the entirety
5 of the articulation of said sectional door.
- 1 15. A sectional door according to claim 1, further comprising at least one of said
2 adjacent panels having exterior and interior surfaces, a window pattern, at least
3 one light sheet, and integral clips provided on said interior surface, wherein said
4 integral clips retain said light sheet in position against said window pattern.
- 1 16. A sectional door according to claim 1, wherein said first decorative rail and said
2 second decorative rail are formed integrally with said body portion.
- 1 17. A sectional door according to claim 1, wherein the number of adjacent panels
2 ranges from two to six depending on the application.
- 1 18. A sectional door for movement between an open position and a closed position
2 comprising, a plurality of interconnected panels having pinch resistant interfaces
3 formed therebetween during movement thereof, a body portion of said panels
4 spacing a first decorative rail and a second decorative rail, said panels having
5 exterior surface, said exterior surface being offset from said first decorative rail
6 and said second decorative rail, and decorative components attached to said
7 exterior surface of said panels and positioned between said first decorative rail

8 and said second decorative rail, whereby said decorative components are
9 outwardly flush with said first decorative rails and said second decorative rails.

1 19. A sectional door according to claim 18, wherein said decorative components have
2 a thickness equal to said offset of said exterior surfaces from said first and second
3 rails.

1 20. A sectional door for movement between an open position and a closed position
2 comprising, a plurality of interconnected panels having pinch resistant interfaces
3 formed therebetween during movement thereof, a body portion of said panels
4 spacing a first decorative component and a second decorative component, said
5 panels having an exterior surface, said exterior surface being spaced an offset
6 depth from said first decorative rail and said second decorative rail, decorative
7 components positioned on said exterior surface of said panels between said first
8 decorative rail and said second decorative rail, and means for attaching said
9 decorative components to said exterior surface of said panels, whereby said
10 decorative components are outwardly flush with said first decorative rail and said
11 second decorative rail.

1 21. A sectional door according to claim 20, wherein said means for attaching said
2 decorative components comprises a fastening mechanism.